

1 **WHAT IS CLAIMED IS:**

2 1. A TV signal receiving aerial having a dual antenna set and a lamp,
3 comprising:
4 a unit body, having a ring antenna, a straight antenna and a key pad
5 mounted thereon;
6 at least one light source installed on the unit body and exposed;
7 a lamp shade mounted on the unit body and surrounding the at least one
8 light source;
9 a circuit board received in the unit body and interconnected with the
10 straight antenna, ring antenna, at least one light source and the key pad, wherein
11 the circuit board is comprised of a signal processing circuit and a lamp driver
12 circuit.

13 2. The TV receiving aerial as claimed in claim 1, wherein the signal
14 processing circuit includes:

15 a high pass filter being connected to the ring antenna to remove low
16 frequency noise from the signals received by the ring antenna;
17 a band pass filter being connected to the straight antenna to extract the
18 VHF signals from the straight antenna; and
19 a signal amplifier being connected to the output of the high pass filter
20 and band pass filter to amplify the signals before outputting the audio and video
21 signals to the television.

22 3. The TV receiving aerial as claimed in claim 2, wherein the signal
23 processing circuit further includes a cable switch connected respectively to a
24 signal processing unit, a AV terminal and a cable connector port for switching the

1 reception between wireless channels and cable channels.

2 4. The TV receiving aerial as claimed in claim 1, wherein the lamp driver
3 circuit is formed by a voltage regulator, being connected between a DC power
4 source and the power input of the light source through the key pad.

5 5. The TV receiving aerial as claimed in claim 2, wherein the lamp driver
6 circuit is formed by a voltage regulator, being connected between a DC power
7 source and the power input of the light source through the key pad.

8 6. The TV receiving aerial as claimed in claim 3, wherein the lamp driver
9 circuit is formed by a voltage regulator, being connected between a DC power
10 source and the power input of the light source through the key pad.

11 7. The TV receiving aerial as claimed in claim 1, wherein the light source
12 is a light bulb.

13 8. The TV receiving aerial as claimed in claim 2, wherein the light source
14 is a light bulb.

15 9. The TV receiving aerial as claimed in claim 3, wherein the light source
16 is a light bulb.

17 10. The TV receiving aerial as claimed in claim 1, wherein the light
18 source is a light emitting diode (LED).

19 11. The TV receiving aerial as claimed in claim 2, wherein the light
20 source is a light emitting diode (LED).

21 12. The TV receiving aerial as claimed in claim 3, wherein the light
22 source is a light emitting diode (LED).

23 13. The TV receiving aerial as claimed in claim 1, wherein the unit body
24 further includes a base and a rotatable stand, wherein:

1 the base is fixed on the unit body with the key pad mounted thereon; and
2 the rotatable stand is mounted on the base with the ring antenna fixed
3 thereon.

4 14. The TV receiving aerial as claimed in claim 13, wherein the light
5 source and the lamp shade shaped like a water drop or in oval shape, are
6 respectively mounted on the rotatable stand coaxially, and the outer edge of the
7 lamp shade is fixed on the rim of the ring antenna, such that the beveled lamp
8 shade is fully integrated with the ring antenna in external appearance.

9 15. The TV receiving aerial as claimed in claim 13, wherein the light
10 source and the lamp shade, in cylindrical shape, are respectively mounted on the
11 base, and the lamp shade is inserted through the central space of the ring antenna
12 and fixed on the unit body, with the top end beveled and open to the outside, such
13 that the slant angle of the ring antenna corresponds with the slanted opening of
14 the lamp shade.